APRIL/MAY 2025

CESC64C/FESC64C — SOFTWARE QUALITY ASSURANCE

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Software Quality.

2. What are the three areas addressed by McCalls model?

3. What are the basic principles of Project Management?

4. Give any two case tools for software quality.

5. What is the special SCM function required during implementation?

6. What is the need of documentation?

7. What is quality improvement?

8. List the components of project progress control.

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9. State the different principles of software assessment.

10. Give the ISO definition on quality management.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Explain the relationship between software quality assurance and software engineering.

Or

(b) Explain the two contract review stages.

12. (a) Discuss about software testing methods.

Or

(b) Explain the pre-maintenance software quality components.

13. (a) Discuss about documentation control procedures.

Or

(b) Describe software configuration management audits.

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14. (a) Write about limitations of software metrics.

Or

(b) Discuss about the objectives of cost of software quality metrics.

15. (a) Explain the management role in quality assurance.

Or

(b) Discuss the composition of software quality assurance unit.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about the environments for which SQA methods are developed.

17. Describe the concepts of black box testing and discuss their advantages and disadvantages.

18. Describe about Procedures and work instructions in SQA.

19. Illustrate the extended model for cost of software quality.

20. Explain the various level of CMM that predict the quality of an organization.

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